

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT5010611

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| TOSHIBA AMERICA ELECTRONIC COMPONENTS, INC. | 05/30/2018 |
| RECEIVING PARTY DATA | |
| Name: | TOSHIBA MEMORY CORPORATION |
| Street Address: | 1-1, SHIBAURA 1-CHOME |
| City: | MINATO-KU, TOKYO |
| State/Country: | JAPAN |
| Postal Code: | 105-0023 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15702967 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
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| Email: | toshibapatents@whitecase.com |
| Correspondent Name: | WHITE & CASE LLP |
| Address Line 1: | 701 13TH STREET NW |
| Address Line 4: | WASHINGTON, D.C. 20005 |
| ATTORNEY DOCKET NUMBER: | 1283810-0165-019 |
| NAME OF SUBMITTER: | DAVID M. TENNANT |
| SIGNATURE: | /David M. Tennant/ |
| DATE SIGNED: | 06/18/2018 |
| Total Attachments: 2 | |
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| source=1283810-0165-019_Assignment#page2.tif | |

ASSIGNMENT

WHEREAS, the undersigned inventor(s) desires to transfer all right, title, and interest in and to the inventions disclosed in the following Invention Disclosure Form(s):

- **SOFT DECISION LDPC DECODER WITH IMPROVED LLR FROM NEIGHBORING BITS** submitted on July 19, 2017 by David Symons, Paul Hanham and Francesco Giorgio (collectively, the "INVENTOR(S)");

And such inventions which if now or hereafter are disclosed in the patent application(s):

- (a) U.S. patent application executed on _____
- (b) U.S. application no. 15/702,967 filed on September 13, 2017
- (c) International (e.g., PCT, JP) application no. _____ filed on _____

(collectively, the "INVENTIONS");

WHEREAS, OCZ Storage Solutions Limited ("OCZ UK"), a U.K. corporation with its principal place of business at 25b-c Western Avenue, Milton Park, Abingdon, OXON, OX14 4SH, U.K., desires to acquire all of the right, title, and interest of David Symons, Paul Hanham and Francesco Giorgio (hereinafter referred to as "OCZ UK INVENTOR(S)") in, to, and under the INVENTIONS and OCZ UK further desires to transfer all such right, title, and interest to Toshiba America Electronic Components, Inc. ("TAEC"), organized and existing under the laws of the United States, having a place for the transaction of business at 9740 Irvine Boulevard, Suite D700, Irvine, CA 92618, USA.

WHEREAS, TAEC desires to acquire all of the right, title, and interest of OCZ UK and INVENTOR(S) in, to, and under the INVENTIONS and TAEC further desires to transfer all such right, title, and interest to Toshiba Memory Corporation (hereinafter referred to as "TMC") a corporation duly organized and existing under the laws of Japan, with offices at 1-1, Shibaura 1-chome, Minato-ku, Tokyo, Japan.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged:

- (1) OCZ UK INVENTOR(S) hereby sell(s), assign(s), and transfer(s) to TAEC the entire right, title, and interest for the United States and its territorial possessions, and in all foreign countries, in and to the INVENTIONS and any and all improvements thereon which are the subject of the INVENTIONS, and in and to any U.S. or foreign patent application for such INVENTIONS and improvements and any legal equivalent thereof in a foreign country, including the right to claim priority, and in and to any division, continuation or continuation-in-part, renewal or substitute thereof, and in and to all resulting Letters Patents or any reissue, reexamination certificate, supplemental examination certificate, post grant review certificate, inter partes review certificate, or otherwise, thereof, to have and to hold the same to the full end of the term or terms for which any and all of said Letters Patent may be granted (collectively, the "ASSIGNED INVENTIONS");
- (2) OCZ UK hereby sell(s), assign(s), and transfer(s) to TAEC the entire right, title, and interest to the ASSIGNED INVENTIONS.
- (3) TAEC hereby sells, assigns, and transfers to TMC the entire right, title, and interest to the ASSIGNED INVENTIONS.

Without further payment or compensation by OCZ UK, TAEC, TMC, or their successors and assigns, INVENTOR(S) further covenant(s) and agree(s) to communicate to OCZ UK, TAEC, TMC, their representatives, agents, their successors or their assigns, or to subsequent assignees of the ASSIGNED

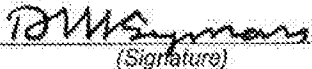
INVENTIONS, any facts relating to the ASSIGNED INVENTIONS including evidence for purposes of interference or derivation proceedings or other administrative or legal proceedings whenever requested; to testify in any interference derivation, legal or administrative proceedings whenever requested; to execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and to do everything possible to aid OCZ UK, TAEC, TMC, their successors, assigns, nominees, or to subsequent assignees of the ASSIGNED INVENTIONS to secure, obtain, and enforce proper patent protection for the ASSIGNED INVENTIONS in this or any foreign country.

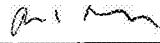
OCZ UK, TAEC, and INVENTOR(S) each covenant that they have the full power to make their respective assignments, and that no assignment, sale, agreement, or encumbrance has been or will be made or entered into which would conflict with these assignments.


OCZ UK, TAEC, and INVENTOR(S) further authorize and request the issuing authority to issue any and all patents on said application or applications to TMC or its successors and assigns.

Any attorney of record for TMC, and its successors and assigns, at the direction of TOSHIBA, is authorized and requested by the execution of these assignments to insert into these assignments any further patent or patent application information in the blanks and check boxes above as necessary for recordation of this document.

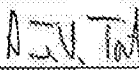
IN WITNESS WHEREOF, the INVENTOR(S) has/have hereunto affixed his/her/their signatures on the date below written.

1)  David Symons 2017-09-11
(Signature) (Type or Print Name) (Date)
19 Broad Close, Kidlington, Oxon, OX5 1BE
(Residence Address)

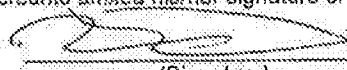
2)  Paul Hanham 2017-09-11
(Signature) (Type or Print Name) (Date)
Harrow Farm Cottage, Froxfield, Marlborough, Wiltshire, SN8 3HT
(Residence Address)

3)  Francesco Giorgio 2017-09-11
(Signature) (Type or Print Name) (Date)
Flat 24, Ellington Court, North Way, Headington, OXON, OX3 9EF
(Residence Address)

IN WITNESS WHEREOF, a representative of OCZ UK with authorization to make this assignment has hereunto affixed his/her signature on the date below written.

 James Tout, GM UK 11 SEP 2017
(Signature) (Date)

IN WITNESS WHEREOF, a representative of TAEC with authorization to make this assignment has hereunto affixed his/her signature on the date below written.

 Rick Lin, IP Attorney 5/30/2018
(Signature) (Date)
Merriging Counsel, Litigation.